

We Claim:

1. A telecommunications system, comprising:

a local communications network and an external communications network, said local communications network comprising a plurality of devices including an interface device, said interface device including an interface for interfacing with said external communications network for downloading an application software from an application software source to said interface device via said external communications network.

2. The telecommunications system according to Claim 1, wherein said external communications network comprises a mobile communications network.

3. The telecommunications system according to Claim 2, wherein said local communications network comprises a local wireless network and wherein said interface device comprises a mobile phone.

4. The telecommunications system according to Claim 3, wherein said local wireless network comprises a Bluetooth wireless network.

5. The telecommunications system according to Claim 1, wherein said plurality of devices further includes an application end-device, and wherein said application software

establishes a functional relationship between said interface device and said application end-device.

6. The telecommunications system according to Claim 5, wherein a secret request code is embedded in said application software, and wherein said interface device includes a public key for encrypting said secret request code prior to sending a communication request to said application end-device.

7. The telecommunications system according to Claim 6, wherein said application end-device includes a private key for decrypting said encrypted secret request code to be identified as an approved application end-device.

8. The telecommunications system according to Claim 5, wherein said interface comprises a JAVA Application Programming Interface.

9. The telecommunications system according to Claim 8, wherein said JAVA Application Programming Interface comprises an Application Programming Interface for selectively identifying an interface port for enabling the application software toward the application end-device.

10. The telecommunications system according to Claim 9, and further including a JAVA script for identifying said interface port.

11. The telecommunications system according to Claim 5, and further including a security management system for preventing unapproved application software from being downloaded to said interface device.

5 12. The telecommunications system according to Claim 11, wherein said security management system further prevents execution of said application software for an unapproved application end-device.

10 13. The telecommunications system according to Claim 12, wherein said security management system includes a secret request code embedded in said application software, and wherein said interface device includes a public key for encrypting said secret request code prior to sending a communication request to said application end-device.

15 14. The telecommunication system according to Claim 13, wherein said application end-device includes a private key for decrypting said encrypted secret code to be identified as an approved application end-device.

20 15. The telecommunications system according to Claim 12, wherein said security management system utilizes Public Key Encryption Technology.

16. The telecommunications system according to Claim 12, wherein a source of said application software, said interface device and said application end-device are approved by a Certification Authority.

5 17. The telecommunications system according to Claim 16, wherein said Certification Authority comprises an operator of said external communications network.

18. A telecommunications system, comprising:

10 a local wireless network and a mobile communications network, said local wireless network comprising a plurality of electronic devices including a mobile phone and an application end-device, said mobile phone including an interface for interfacing with said mobile communications network for downloading an application software from an application software source to said mobile phone via said mobile telephone network, said application software establishing a functional relationship between said mobile phone and said application end-device.

15 19. The system according to Claim 18, wherein said interface comprises a JAVA Application Programming Interface.

20 20. The telecommunications system according to Claim 19, wherein said JAVA Application Programming Interface comprises an Application Programming Interface for

selectively identifying an interface port for enabling the application software toward the application end-device.

21. The telecommunications system according to Claim 20, and further including a  
5 JAVA script for identifying said interface port.

22. The telecommunications system according to Claim 18, and further including a  
security management system for preventing unapproved application software from being  
downloaded to said mobile phone.

23. The telecommunications system according to Claim 22, wherein said security  
management system further prevents execution of said application software for an unapproved  
application end-device.

15 24. The telecommunication system according to Claim 23, wherein said security  
management systems includes a secret request code embedded in said application software, and  
wherein said interface device includes a public key for encrypting said secret request code prior  
to sending a communication request to said application end-device.

25. The telecommunication system according to Claim 24, wherein said application end-device includes a private key for decrypting said encrypted secret request code to be identified as an approved application end-device.

5 26. The telecommunications system according to Claim 23, wherein said security management system utilizes Public Key Encryption Technology.

27. The telecommunications system according to Claim 18, wherein said local wireless network comprises a Bluetooth wireless network.

10 28. A mobile telephone for a local wireless network, said mobile telephone including an interface for interfacing with an external communications network for downloading an application software from an application software source to said mobile telephone via said external communications network.

15 29. The mobile telephone according to Claim 28, wherein said external communications network comprises a mobile communications network.

20 30. The mobile telephone according to Claim 28, wherein said local wireless network comprises a Bluetooth wireless network.

31. The mobile telephone according to Claim 28, wherein said local wireless network further includes an application end-device, and wherein said application software establishes a functional relationship between said mobile telephone and said application end-device.

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32. The mobile telephone according to Claim 31, and further including a key for encrypting a secret request code embedded in said application software prior to sending said secret request code to said application end-device.

33. The mobile telephone according to Claim 31, wherein said interface comprises a JAVA Application Programming Interface.

34. The mobile telephone according to Claim 33, wherein said JAVA Application Programming Interface comprises an Application Programming Interface for selectively identifying an interface port for enabling the application software toward the application end-device.

35. The mobile telephone according to Claim 34, and further including a JAVA script for identifying said interface port.

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36. In a telecommunications system that includes a local communications network and an external communications network, the local communications network including an interface device for interfacing with said external communications network, a method for loading application software in said interface device comprising downloading said application software from an application software source to said interface device via said external communications network.

37. The method according to Claim 36, wherein said local communications network comprises a local wireless network, said interface device comprises a mobile phone, and said external communications network comprises a mobile communications network.

38. The method according to Claim 37, and further including the step of certifying said mobile phone by a Certification Authority to receive said application software before the step of downloading.

39. The method according to Claim 38, wherein said Certification Authority comprises an operator of said mobile communications network.

40. The method according to Claim 36, and further including the step of charging a fee for downloading said application software.



41. The method according to Claim 40, wherein said step of charging a fee comprises an operator of said mobile communications network charging said fee to a service provider that provides said application software.

5 42. The method according to Claim 41, wherein said service provider further charges a fee to an entity that provides said application software.

43. The method according to Claim 36, wherein said local wireless network comprises a Bluetooth wireless network.

44. The method according to Claim 36, wherein said application software includes a secret request code to be encrypted by said interface device prior to sending said secret request code to an application end-device.